

### **REMARKS**

Applicants have canceled claim 99 without prejudice to introduction in a subsequent application or reintroduction in the present application. As a result claims 1-98 and 100-108 are currently pending in the application.

In response to the Office Action mailed March 23, 2006, Applicants elect Invention VI relating to claims 58-81 and 96-108. Applicants additionally elect species (A) corresponding to a core/shell structure comprising a core and single shell, wherein the core is (i) a II/VI compound and the shell is (i) a II/VI compound and wherein the band gap of the shell material is (b) greater than the band gap of the adjacent core material.

Applicants respectfully traverse the present restriction requirement. Applicants respectfully assert that the election of species requirement is meaningless in view of the elected method claims. The method claims of the present application recite methods for preparing core/shell nanocrystals comprising a core and at least one shell. Searching single or multiple shell nanocrystals is not unduly burdensome on the Examiner.<sup>1</sup> As a result, the restriction to one of species (A)-(D) is unnecessary.

Moreover, Applicants respectfully traverse the election of species between II/VI and III/V materials as a search for II/VI and III/V materials is not unduly burdensome. II/VI and III/V materials can find the same classification as semiconducting materials. Additionally, Applicants respectfully traverse the election between the band gap of the core material being (a) less than the band gap of the shell material or (b) greater than the band gap of the shell material. Band gaps of the core and shell materials are not limitations in method claims of the present invention.

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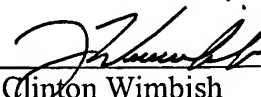
<sup>1</sup> See, Manual of Patent Examining Procedure § 803

**CONCLUSION**

In view of the foregoing, a favorable Office Action is respectfully solicited. The Examiner is respectfully invited to contact J. Clinton Wimbish at 336.607.7399 to discuss any matter relating to the present application.

Respectfully submitted,

8/23/04  
Date

  
J. Clinton Wimbish  
Reg. No. 54,545

Kilpatrick Stockton LLP  
1001 West Fourth Street  
Winston-Salem, NC 27101